

NORTH CAROLINA

Department of Transportation



















Preconstruction Activities Update

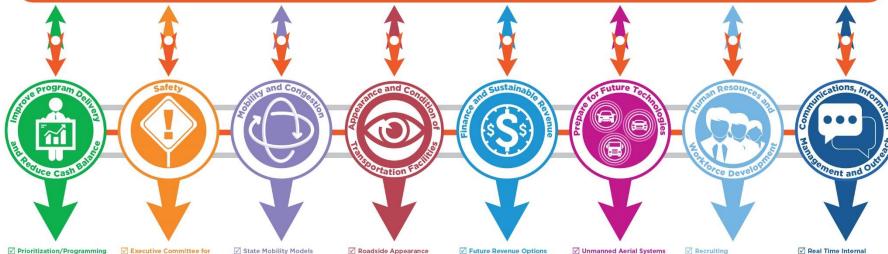
Chris Werner, Director of Technical Services

November 8, 2018

NCDOT Priorities and Work Groups

Better Transportation Service for North Carolina

Our Mission: Connecting people, products and places safely and efficiently with customer focus, accountability and environmental sensitivity to enhance the economy and vitality of North Carolina.



- ✓ Prioritization/Programming
- Scoping, Scheduling
- ☑ Project Development
- ✓ Procurements
- ☑ Right-of-Way
- ✓ Operations and Maintenance
- Revenue and Cash Model
- **▼** Executive Committee for
- ☑ Technology Pilots
- ✓ Planning and Policy
- Highway Safety
- ✓ Vision Zero
 - ✓ Mobility Modernization Fund Implementation
 - ✓ Mobility Performance Data

Economic Development

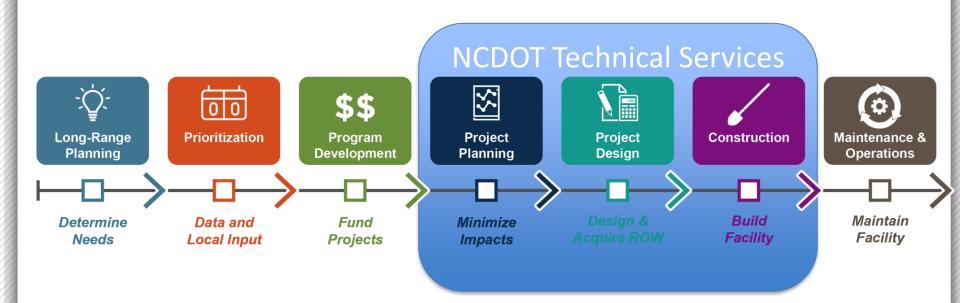
and Analytics

✓ Rural Mobility and

- ✓ Roadside Appearance
- ☑ Bridge and Structures
- ☑ Pavements; Signals/ITS
- ✓ Transportation Facilities
- Budgeting and Performance Plans
- **▼** Future Revenue Options for Sustained Transportation
- - ☑ Debt Capacity Instruments
- ☑ Unmanned Aerial Systems
- ✓ Connected and Automated Vehicle Policy
- ✓ Connected and Automated Vehicle Infrastructure and
- ✓ Industry Technology **Advisory Group**
- ✓ University Center for Transportation Innovation
- ☑ Decision Support and Operations Control Data, Integration, Infrastructure, and Analysis Systems Technology

- ✓ Small Business Development
- ☑ Benefits/Compensation Reform and Modernization
- ✓ Scholarships/Internships/ Apprenticeships
- ✓ Real Time Internal Performance Measures and Dashboarding
- **▼** Real Time External Performance Measure and Dashboarding
- ✓ External Communications and Outreach of DOT Services-Planning, Project Development. Construction, Operation, All Hazard Response, Transportation Permits. Vehicle and Driver Services
- ✓ Real Time Data Collection, Analysis, Storage, and Reporting Across all Modes, Units, Facilities and Operations to Obtain and Sustain Full Time Situational Awareness

What is "Technical Services"?



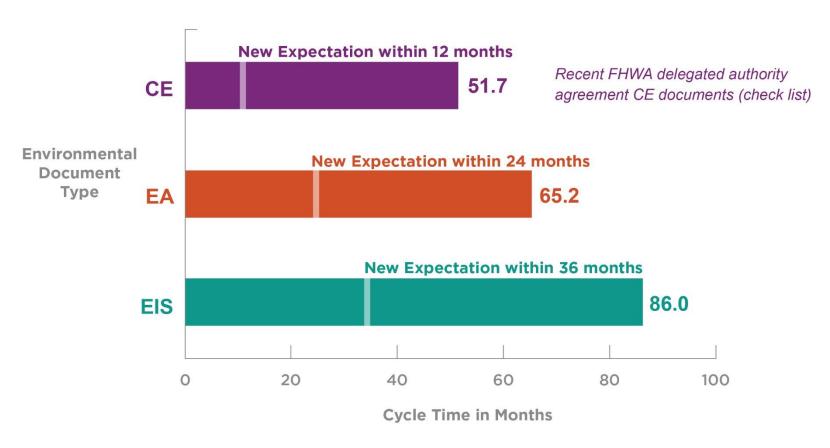
What is NEPA?

- National Environmental Policy Act of 1969
- Requires <u>federal agencies</u> to take a <u>hard look</u> at the human and natural resource <u>impacts of their actions</u>
- Types of NEPA Documentation
 - Categorical Exclusion (CE)minor actions with minimal impacts
 - Environmental Assessment (EA)
 projects with unknown impacts that require a closer look
 - Environmental Impact Statement (EIS)
 major projects with known significant impacts

What is SEPA?

- North Carolina (State) Environmental Policy Act of 1971
- Requires <u>state agencies</u> to follow a process similar to NEPA to review the human and natural resource impacts of their actions
- NCDOT must adhere to Minimum Criteria to determine which document to prepare
 - Minimum Criteria Determination Checklist (MCDC)
 minor actions with minimal impacts
 - Environmental Assessment (EA)
 projects with unknown impacts that require a closer look
 - Environmental Impact Statement (EIS)
 major projects with known significant impacts

Discoveries and Expectations



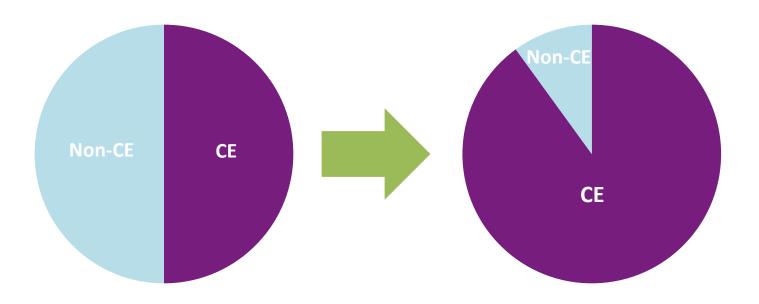
(CE) Categorical exclusion

(EA) Environmental assessments

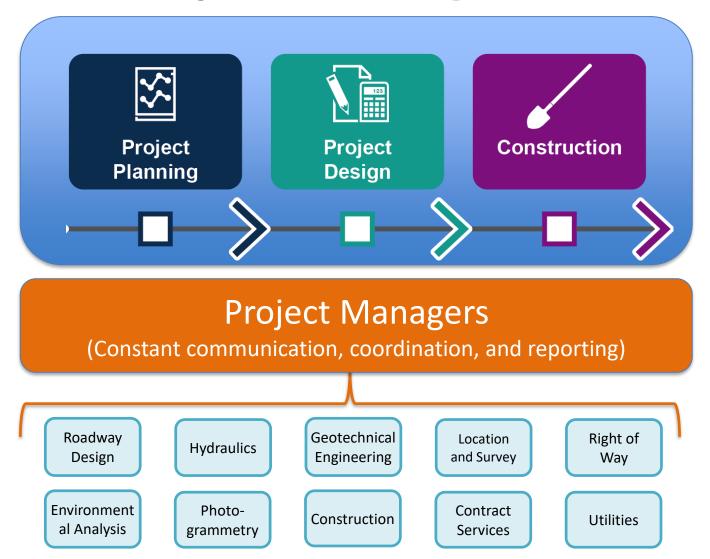
(EIS) Environmental impact statement

Project Delivery

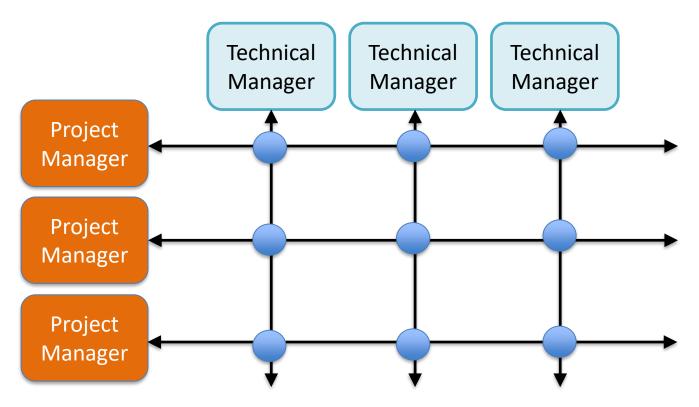
- Consistent policy approach
- Greater emphasis on document type and needs



Project Development

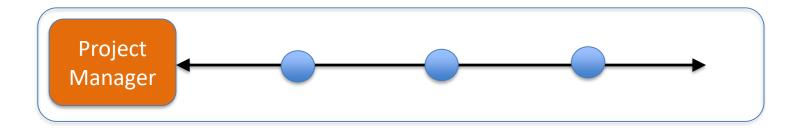


Project Management Unit



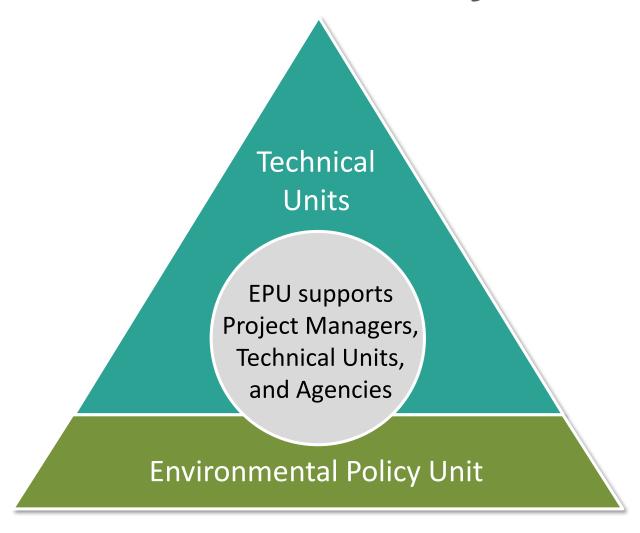
- Project Manager focused on scope, schedule, budget, quality
- Technical Manager provides technical staff for project team
 - Represents a team member from a Technical Unit assigned to a project

Project Team

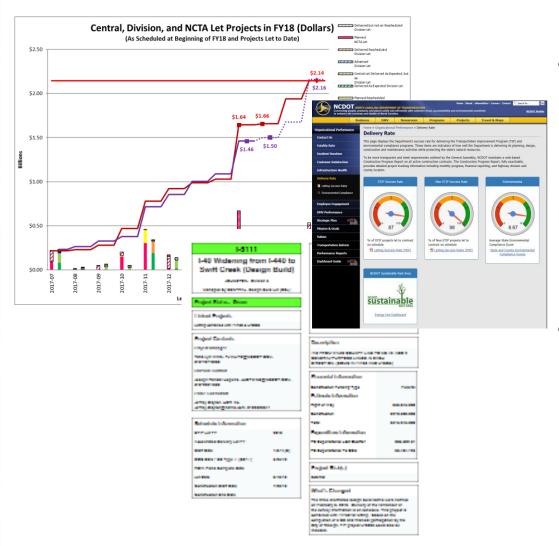


- Project Manager leads the Team, coordinates technical studies and responsible for project decisions
- Team members are specialists in engineering, environmental and other areas
- Consultants support project managers and technical units
- Represents a team member from a Technical Unit assigned to a project

Environmental Policy Unit



Reviews, Oversight, and Controls



- Internal
 - Focus on program delivery
 - Constant status review –
 scope, schedule and budget
 - Opportunity to accelerate projects
 - Involvement at all levels
 - Systematic
- External
 - Legislative requirements

Integrated Project Delivery

What is it?

- Document and evaluate existing business practices
- Research and assess best practices across the country
- Identify strategic opportunities for improvement
- Develop an implementation plan
- Support implementation activities

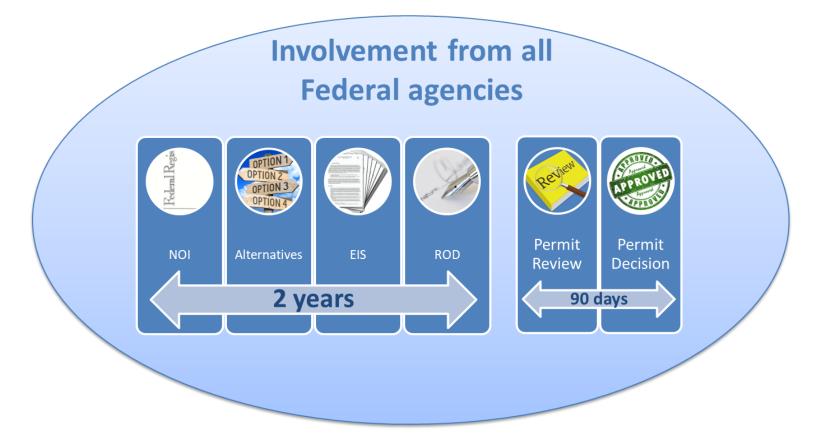
Integrated Project Delivery

Why is it needed?

- Types of projects we are constructing are much different than in years past
- Have created the Project Manager Role
- Have transitioned to a Matrix Organization for Project Development
- Guidance documents need to be updated to support our increased usage of consultants and divisions

One Federal Decision

Executive Order 13807, President Trump August 15, 2017



Contact Information

Christopher M. Werner, PE
Director of Technical Services
NC Department of Transportation

919 707 2540 office cmwerner@ncdot.gov